

## ABSTRACT

In a communications system for adaptively controlling a modulation mode and encoding rate for data transmitted from a transmitter to a receiver, the transmitter comprises adaptive modulation control means for controlling

- 5 the modulation mode and encoding rate in accordance with the channel quality notified from the receiver, and transmission power control means for controlling a transmission power ratio of the control channel to a data channel in accordance with a control channel error detection result notified from the receiver and the modulation mode and encoding rate.